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This listing of claims will replace all prior versions, and listings of claims in the application.

Listing of Claims:

Claim 1 (canceled)

2.   (currently amended) An isolated DNA molecule having a nucleotide sequence <u>as in SEQ ID NO: 12</u>, wherein adenine is in nucleotide position 307 of the open reading frame instead of guanine ~~in SEQ ID NO: 12~~.

Claim 3 (canceled)

4.   (previously presented) An isolated DNA molecule which is complementary to the nucleotide sequence of claim 2 or SEQ ID NO: 12.

Claim 5 (canceled)

6.   (previously presented) An isolated DNA molecule according to claim 2 with a thymine in nucleotide position 229.

7.   (currently amended) A fragment of the isolated DNA molecule of claim 2, said fragment including a nucleotide sequence that distinguishes *E. coli* <u>F18</u> colonization resistant swine from sensitive swine.

8.   (currently amended) A <u>nucleic acid</u> probe , <u>whose sequence is derived from SEQ ID NO: 12, the probe capable of detecting</u> ~~to detect~~ if the nucleotide at position 307 of the open reading frame of the alpha (1,2) fucosyltransferase gene 1 in swine is guanine.

9.   (currently amended) A <u>nucleic acid</u> probe <u>whose sequence is derived from SEQ ID NO: 12, the probe capable of detecting</u> ~~to detect~~ if the nucleotide at position 307 of the open reading frame of the alpha (1,2) fucosyltransferase gene 1 in swine is adenine.

10.   (canceled)

11.   (currently amended) ~~Amplified~~ <u>Nucleic acid</u> fragments of <u>swine</u> FUT1 produced <u>by amplification followed</u> by restriction <u>with restriction</u> enzymes CfoI (A) and ACiI (B).